

PSYCHOLOGICAL STATISTICS

CHAPTER 2: FREQUENCY DISTRIBUTIONS

Frequency Distributions

- A frequency distribution is an organized tabulation of the number of individuals located in each category on the scale of measurement

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- Multiply each X by its frequency
- Sum the products (ΣfX)

X	f	fX
10	2	20
9	4	36
8	7	56
7	4	28
6	2	12
5	0	0
4	1	4

$$\Sigma X = \Sigma fX = 156$$

Proportions & Percentages from a Frequency Distribution

- Proportion = $p = f / N$
- Percentage = $p (100) = (f / N) * 100$

X	f	fX	$p = f/N$	$p(100) = (f/N) * 100$
10	2	20	$2/20 = 0.10$	10%
9	4	36	$4/20 = 0.20$	20%
8	7	56	$7/20 = 0.35$	35%
7	4	28	$4/20 = 0.20$	20%
6	2	12	$2/20 = 0.10$	10%
5	0	0	$0/20 = 0.00$	0%
4	1	4	$1/20 = 0.05$	5%

Group Frequency Distributions

- Sometimes there are too many categories for them to all be represented in a frequency distribution
 - E.g. scores on an exam
- Group some of the categories together
 - Class intervals

Grouped Frequency Distributions

- Guidelines for grouping categories
 - The distribution should have ~10 class intervals
 - Width of each class interval should be a "simple" number, e.g. 2, 5, 10
 - Bottom score should be a multiple of the width
 - All class intervals should be same width

Exam Scores											
66	70	68	64	78	72	62	77	68	64	62	62
68	65	76	78	68	67	71	68	68	71	74	67

- Range = $94 - 44 = 50$
- Too many for frequency distribution

Class Width	Number of Class Intervals
2	25
5	10
10	5

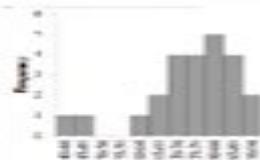
- Bottom interval = 40

X	f
90-94	2
85-89	4
80-84	7
75-79	4
70-74	4
65-69	2
60-64	1
55-59	0
50-54	0
45-49	1
40-44	1

Frequency Histogram

- A histogram is a graphical representation of the frequency distribution
- List numerical scores on X axis
- Draw line above X axis to find
- Single continuous frequency in that category in that length of the category

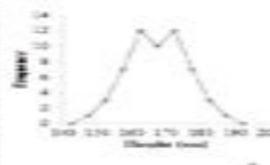
X	f
90-94	2
85-89	4
80-84	7
75-79	4
70-74	4
65-69	2
60-64	1
55-59	0
50-54	0
45-49	1
40-44	1



Frequency Polygon

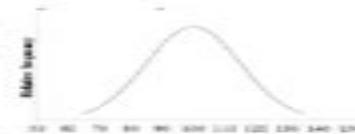
- Draws same data as histogram
- Line graph
- List categories of continuous variable
- Line connects all points
- Draw continuous line
- Draw dots for each score

Weight (kg)	f
140-149	5
150-159	9
160-169	11
170-179	10
180-189	7
190-199	5



Population Frequency Distribution

- Usually drawn as smooth curve for population you are not using real frequencies
- Normal or Gaussian distribution
- Symmetrical



Skewness

- Some distributions are not symmetrical
- They have more observations on one side of the distribution than in the other
 - Tail - the side where the scores taper off more gradually
- Such distributions are said to be skewed
- Skewness can be either positive or negative

Positively Skewed Distributions

- A positively skewed distribution has the tail toward the positive end of the X axis



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Lei Huang



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